



PubMed

Nucleotide

Protein

Genome

Structure

PMC

Taxonomy

OMIM

Bio

Search for

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Limits

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History

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Details

Display

default

Show:

Send to

File

Get Subsequence

□ 1: AAF71504. unknown [Pseudomo...[gi:8037797]

BLink, Links

LOCUS AF232006_7 486 aa linear BCT 05-MAR-2001

DEFINITION unknown [Pseudomonas syringae pv. tomato].

ACCESSION AAF71504

VERSION AAF71504.1 GI:8037797

DBSOURCE locus AF232004 accession AF232004.3

KEYWORDS .

SOURCE Pseudomonas syringae pv. tomato

ORGANISM Pseudomonas syringae pv. tomato

Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas.

REFERENCE 1 (residues 1 to 486)

AUTHORS Ramos,A.R., Rehm,A.H. and Collmer,A.R.

TITLE Pseudomonas syringae pv. tomato DC3000 hrpL through hrcU

JOURNAL Unpublished

REFERENCE 2 (residues 1 to 486)

AUTHORS Alfano,J.R. and Collmer,A.

TITLE Direct Submission

JOURNAL Submitted (07-FEB-2000) Dept. Biol. Sci., UNLV, 1854 Maryland Parkway, Las Vegas, NV 89154, USA

REFERENCE 3 (residues 1 to 486)

AUTHORS Ramos,A.R., Rehm,A.H. and Collmer,A.R.

TITLE Direct Submission

JOURNAL Submitted (22-NOV-2000) Plant Pathology, Cornell University, 334 Plant Sciences Bldg., Ithaca, NY 14850, USA

REMARK Sequence update by submitter

REFERENCE 4 (residues 1 to 486)

AUTHORS Ramos,A.R., Rehm,A.H. and Collmer,A.R.

TITLE Direct Submission

JOURNAL Submitted (05-MAR-2001) Plant Pathology, Cornell University, 334 Plant Sciences Bldg., Ithaca, NY 14850, USA

REMARK Sequence update by submitter

COMMENT Method: conceptual translation.

FEATURES Location/Qualifiers

source 1..486

/organism="Pseudomonas syringae pv. tomato"

/strain="DC3000"

/db_xref="taxon:323"

/note="exchangeable effector locus flanking the hrp/hrc cluster

pathovar: tomato"

Protein 1..486

/product="unknown"

CDS 1..486

/coded_by="complement (AF232004.3:44657..46117)"

/note="ORF5"

/transl_table=11

ORIGIN

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61  padsadgqaa vdvhnaqita lietrasrlh fegetpatia dtfakaekld rlatttsgal
121 ratpfamasl lqymqpaink gdwlpaplkp ltplisgals gamdqvgtkm mdratgdlhy
181 lsaspdrldh amaasvkrhs psllarqvldt gvavqtysar navrtvlapa lasrpavqga
241 vdlgvsmagg laanagfgnr llsvqsrhdq rggalvlglk dkepkaqlse endwleayka
301 iksasysgaa lnagkrmagl pldmatdamg avrslvsass ltqnglalat gfagvgklqe
361 matknitdpa tkaavsqltn lagsaavfag wttaalttdp avkkaesfiq dtvkstasst
421 tgyvadqtvk laktvkdmgg eaithtgasl rntvnnlrqr pareadieeg gtaaspseip
481 frpmrs
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//

Revised: July 5, 2002.

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NCBI | [NLM](#) | [NIH](#)

Jan 21 2003 18:08:12

WEST Search History

DATE: Tuesday, January 28, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB; PLUR=YES; OP=OR</i>			
L14	"ala ala his arg phe ser val"	1	L14
L13	"met his ile asn gln ser"	1	L13
L12	"cel orf5"	1	L12
L11	effector\$ and l7	2	L11
L10	"ala ala his lys leu"	7	L10
L9	"met his ile asn"	6	L9
L8	af232006	1	L8
L7	L6 and orf\$	10	L7
L6	L4 and l3	25	L6
L5	L4 and l4	28	L5
L4	dc3000\$	28	L4
L3	"pseudomonas syringae"	1115	L3
L2	hopptoa\$	2	L2
<i>DB=USPT,PGPB; PLUR=YES; OP=OR</i>			
L1	collmer.in. and alfano.in. and charkowski.in.	2	L1

END OF SEARCH HISTORY

Connecting via Winsock to Dialog

Logging in to Dialog

Trying 3106000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

ENTER PASSWORD:

Welcome to DIALOG

Dialog level 02.12.20D

Last logoff: 02jan03 18:13:09

Logon file405 28jan03 15:25:10

*** ANNOUNCEMENT ***

--File 515 D&B Dun's Electronic Business Directory is now online completely updated and redesigned. For details, see HELP NEWS 515.

--File 990 - NewsRoom now contains October 2002 to present records.
File 993 - NewsRoom archive contains 2002 records from January 2002-September 2002. To search all 2002 records, BEGIN 990,993 or B NEWS2002

--Alerts have been enhanced to allow a single Alert profile to be stored and run against multiple files. Duplicate removal is available across files and for up to 12 months. The Alert may be run according to the file's update frequency or according to a custom calendar-based schedule. There are no additional prices for these enhanced features. See HELP ALERT for more information.

--U.S. Patents Fulltext (File 654) has been redesigned with new search and display features. See HELP NEWS 654 for information.

--Connect Time joins DialUnits as pricing options on Dialog. See HELP CONNECT for information.

--CLAIMS/US Patents (Files 340,341, 942) have been enhanced with both application and grant publication level in a single record. See HELP NEWS 340 for information.

--SourceOne patents are now delivered to your email inbox as PDF replacing TIFF delivery. See HELP SOURCE1 for more information.

--Important news for public and academic libraries. See HELP LIBRARY for more information.

--Important Notice to Freelance Authors--
See HELP FREELANCE for more information

For information about the access to file 43 please see Help News43.

NEW FILES RELEASED

***Dialog NewsRoom - Current 3-4 months (File 990)

***Dialog NewsRoom - 2002 Archive (File 993)

***Dialog NewsRoom - 2001 Archive (File 994)

***Dialog NewsRoom - 2000 Archive (File 995)
***TRADEMARKSCAN-Finland (File 679)
***TRADEMARKSCAN-Norway (File 678)
***TRADEMARKSCAN-Sweden (File 675)

UPDATING RESUMED

***Delphes European Business (File 481)

RELOADED

***D&B Dun's Electronic Business Directory (File 515)
***U.S. Patents Fulltext 1976-current (File 654)
***Population Demographics (File 581)
***Kompass Western Europe (File 590)
***D&B - Dun's Market Identifiers (File 516)

REMOVED

***Chicago Tribune (File 632)
***Fort Lauderdale Sun Sentinel (File 497)
***The Orlando Sentinel (File 705)
***Newport News Daily Press (File 747)
***U.S. Patents Fulltext 1980-1989 (File 653)
***Washington Post (File 146)
***Books in Print (File 470)
***Court Filings (File 793)
***Publishers, Distributors & Wholesalers of the U.S. (File 450)
***State Tax Today (File 791)
***Tax Notes Today (File 790)
***Worldwide Tax Daily (File 792)

New document supplier

IMED has been changed to INFOTRIE (see HELP OINFOTRI)

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<

>>> of new databases, price changes, etc. <<<

* * New CURRENT Year ranges installed * *

SYSTEM:HOME

Cost is in DialUnits

Menu System II: D2 version 1.7.8 term=ASCII

*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

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/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

? b 410

28jan03 15:25:11 User268147 Session D35.1
\$0.00 0.157 DialUnits FileHomeBase
\$0.00 Estimated cost FileHomeBase
\$0.00 Estimated cost this search
\$0.00 Estimated total session cost 0.157 DialUnits

File 410:Chronolog(R) 1981-2002/Nov
(c) 2002 The Dialog Corporation

Set Items Description

--- -----
? set hi %%%;set hi %%%
HIGHLIGHT set on as "
HIGHLIGHT set on as "
? b 5, 76, 143, 34
>>> 76 does not exist
>>>1 of the specified files is not available
28jan03 15:26:16 User268147 Session D35.2
\$0.00 0.072 DialUnits File410
\$0.00 Estimated cost File410
\$0.43 TELNET
\$0.43 Estimated cost this search
\$0.43 Estimated total session cost 0.229 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 5:Biosis Previews(R) 1969-2003/Jan W3
(c) 2003 BIOSIS

*File 5: Alert feature enhanced for multiple files, duplicates
removal, customized scheduling. See HELP ALERT.

File 143:Biol. & Agric. Index 1983-2003/Dec
(c) 2003 The HW Wilson Co

File 34:SciSearch(R) Cited Ref Sci 1990-2003/Jan W3
(c) 2003 Inst for Sci Info

*File 34: Alert feature enhanced for multiple files, duplicates
removal, customized scheduling. See HELP ALERT.

Set Items Description

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? e au=collmer

Ref	Items	Index-term
E1	61	AU=COLLMAR W
E2	1	AU=COLLMAZZEI J
E3	0	*AU=COLLMER
E4	144	AU=COLLMER A
E5	1	AU=COLLMER AC
E6	54	AU=COLLMER ALAN
E7	1	AU=COLLMER ALLAN
E8	18	AU=COLLMER C W
E9	2	AU=COLLMER CANDACE W
E10	1	AU=COLLMER CANDACE WHITMER
E11	5	AU=COLLMER CW
E12	11	AU=COLLMER D

Enter P or PAGE for more

? s e4 or e5 or e6 or e7

144 AU=COLLMER A
1 AU=COLLMER AC
54 AU=COLLMER ALAN
1 AU=COLLMER ALLAN
S1 200 AU='COLLMER A' OR AU='COLLMER AC' OR AU='COLLMER ALAN' OR

AU='COLLMER ALLAN'

? e au=alfano

Ref	Items	Index-term
E1	1	AU=ALFANI, F
E2	1	AU=ALFANI, FRANCESCO
E3	0	*AU=ALFANO
E4	22	AU=ALFANO A
E5	2	AU=ALFANO A J
E6	8	AU=ALFANO A M
E7	1	AU=ALFANO A P
E8	6	AU=ALFANO AJ
E9	1	AU=ALFANO ALAN
E10	1	AU=ALFANO ALAN P
E11	3	AU=ALFANO AP
E12	48	AU=ALFANO B

Enter P or PAGE for more

? p

Ref	Items	Index-term
E13	8	AU=ALFANO BRUNO
E14	26	AU=ALFANO C
E15	3	AU=ALFANO C L
E16	1	AU=ALFANO CA
E17	1	AU=ALFANO CANDICE A
E18	3	AU=ALFANO CATHERINE M
E19	1	AU=ALFANO CHARLES A
E20	1	AU=ALFANO CHRISTINE
E21	1	AU=ALFANO CHRISTINE V
E22	1	AU=ALFANO CL
E23	4	AU=ALFANO CM
E24	1	AU=ALFANO CV

Enter P or PAGE for more

? p

Ref	Items	Index-term
E25	6	AU=ALFANO D
E26	13	AU=ALFANO D P
E27	1	AU=ALFANO D'ANDREA A
E28	1	AU=ALFANO DAA
E29	1	AU=ALFANO DENNIS P
E30	18	AU=ALFANO DP
E31	3	AU=ALFANO E
E32	3	AU=ALFANO E M
E33	1	AU=ALFANO EDIE
E34	1	AU=ALFANO EM
E35	29	AU=ALFANO F
E36	1	AU=ALFANO F D

Enter P or PAGE for more

? p

Ref	Items	Index-term
E37	1	AU=ALFANO F M
E38	3	AU=ALFANO F S
E39	1	AU=ALFANO FD
E40	1	AU=ALFANO FILIPPO
E41	7	AU=ALFANO FLORA
E42	1	AU=ALFANO FRANCESCO S
E43	1	AU=ALFANO FRANCIS D

E44 8 AU=ALFANO FS
 E45 67 AU=ALFANO G
 E46 1 AU=ALFANO G R
 E47 2 AU=ALFANO GIOVANNA
 E48 23 AU=ALFANO J

Enter P or PAGE for more

? p

Ref Items Index-term
 E49 2 AU=ALFANO J A
 E50 3 AU=ALFANO J C

? p

Ref Items Index-term
 E1 3 AU=ALFANO J C
 E2 3 AU=ALFANO J E
 E3 3 AU=ALFANO J R
 E4 2 AU=ALFANO JA
 E5 21 AU=ALFANO JAMES R
 E6 31 AU=ALFANO JC
 E7 2 AU=ALFANO JOHN
 E8 2 AU=ALFANO JOSEPH C
 E9 2 AU=ALFANO JOSEPHINE
 E10 2 AU=ALFANO JOSEPHINE A
 E11 18 AU=ALFANO JR
 E12 3 AU=ALFANO K

Enter P or PAGE for more

? e au=alfano j

Ref Items Index-term
 E1 1 AU=ALFANO G R
 E2 2 AU=ALFANO GIOVANNA
 E3 23 *AU=ALFANO J
 E4 2 AU=ALFANO J A
 E5 3 AU=ALFANO J C
 E6 3 AU=ALFANO J E
 E7 3 AU=ALFANO J R
 E8 2 AU=ALFANO JA
 E9 21 AU=ALFANO JAMES R
 E10 31 AU=ALFANO JC
 E11 2 AU=ALFANO JOHN
 E12 2 AU=ALFANO JOSEPH C

Enter P or PAGE for more

? s e3 or e4 or e5 or e6 or e7 or e8 or e9 or e10

23 AU=ALFANO J
 2 AU=ALFANO J A
 3 AU=ALFANO J C
 3 AU=ALFANO J E
 3 AU=ALFANO J R
 2 AU=ALFANO JA
 21 AU=ALFANO JAMES R
 31 AU=ALFANO JC
 S2 88 AU='ALFANO J' OR AU='ALFANO J A' OR AU='ALFANO J C' OR
 AU='ALFANO J E' OR AU='ALFANO J R' OR AU='ALFANO JA' OR
 AU='ALFANO JAMES R' OR AU='ALFANO JC'

? e au=charkowsky a

Ref Items Index-term
 E1 2 AU=CHARKOWSKI, A. O

E2 6 AU=CHARKOWSKI, AMY O
 E3 0 *AU=CHARKOWSKY A
 E4 5 AU=CHARKRABARTI A
 E5 1 AU=CHARKRABARTI R
 E6 5 AU=CHARKRABARTI S
 E7 1 AU=CHARKRABARTI UK
 E8 1 AU=CHARKRABATI R
 E9 1 AU=CHARKRABORTI T K
 E10 1 AU=CHARKRABORTY A K
 E11 1 AU=CHARKRABORTY N K
 E12 47 AU=CHARKRABORTY R

Enter P or PAGE for more

? s el or s2

2 AU=CHARKOWSKI, A. O
 88 S2

S3 90 AU='CHARKOWSKI, A. O' OR S2

? ds

Set Items Description

S1 200 AU='COLLMER A' OR AU='COLLMER AC' OR AU='COLLMER ALAN' OR -
 AU='COLLMER ALLAN'

S2 88 AU='ALFANO J' OR AU='ALFANO J A' OR AU='ALFANO J C' OR AU=-
 'ALFANO J E' OR AU='ALFANO J R' OR AU='ALFANO JA' OR AU='ALFA-
 NO JAMES R' OR AU='ALFANO JC'

S3 90 AU='CHARKOWSKI, A. O' OR S2

? e au=charkowski

Ref Items Index-term

E1 9 AU=CHARKOUDIAN, NISHA
 E2 1 AU=CHARKOVSKY VB
 E3 0 *AU=CHARKOWSKI
 E4 1 AU=CHARKOWSKI A
 E5 10 AU=CHARKOWSKI A O
 E6 1 AU=CHARKOWSKI AMY
 E7 9 AU=CHARKOWSKI AMY O
 E8 12 AU=CHARKOWSKI AO
 E9 2 AU=CHARKOWSKI D
 E10 2 AU=CHARKOWSKI D M
 E11 1 AU=CHARKOWSKI DENNIS M
 E12 2 AU=CHARKOWSKI DM

Enter P or PAGE for more

? s e4 or e5 or e6 or e7 or e8

1 AU=CHARKOWSKI A
 10 AU=CHARKOWSKI A O
 1 AU=CHARKOWSKI AMY
 9 AU=CHARKOWSKI AMY O
 12 AU=CHARKOWSKI AO

S4 33 AU='CHARKOWSKI A' OR AU='CHARKOWSKI A O' OR
 AU='CHARKOWSKI AMY' OR AU='CHARKOWSKI AMY O' OR
 AU='CHARKOWSKI AO'

? ds

Set Items Description

S1 200 AU='COLLMER A' OR AU='COLLMER AC' OR AU='COLLMER ALAN' OR -
 AU='COLLMER ALLAN'

S2 88 AU='ALFANO J' OR AU='ALFANO J A' OR AU='ALFANO J C' OR AU=-
 'ALFANO J E' OR AU='ALFANO J R' OR AU='ALFANO JA' OR AU='ALFA-
 NO JAMES R' OR AU='ALFANO JC'

S3 90 AU='CHARKOWSKI, A. O' OR S2

S4 33 AU='CHARKOWSKI A' OR AU='CHARKOWSKI A O' OR AU='CHARKOWSKI

AMY' OR AU='CHARKOWSKI AMY O' OR AU='CHARKOWSKI AO'
 ? "pseudomonas syringae"
 >>>Warning: unmatched quote found

Ref	Items	Index-term
E1	1	PSEUDOMONAS SYRINGAE-DERIVED
E2	1	PSEUDOMONAS SYRINGAE, PV CORONAFACIENS, PV PHA
E3	0	*PSEUDOMONAS SYRINGAE"
E4	1	PSEUDOMONAS SYRINGAES STRA GENE (PSEUDOMONADACE
E5	2	PSEUDOMONAS SYRINGE PV TABACI
E6	3	PSEUDOMONAS SYRINGEA (PSEUDOMONADACEAE)
E7	1	PSEUDOMONAS SYRINGEA LSCA GENE (PSEUDOMONADACE
E8	1	PSEUDOMONAS SYRINGEA LSCB GENE (PSEUDOMONADACE
E9	1	PSEUDOMONAS SYRINGEA LSCC GENE (PSEUDOMONADACE
E10	1	PSEUDOMONAS SYRINGNAE
E11	1	PSEUDOMONAS SYRINGNE
E12	1	PSEUDOMONAS SYRINGUE

Enter P or PAGE for more
 ? s "pseudomonas syringae"
 S5 338 "PSEUDOMONAS SYRINGAE"
 ? s (s1 or s2 or s4)
 200 S1
 88 S2
 33 S4
 S6 282 (S1 OR S2 OR S4)
 ? s s6 and s5
 282 S6
 338 S5
 S7 0 S6 AND S5
 ? ds

Set	Items	Description
S1	200	AU='COLLMER A' OR AU='COLLMER AC' OR AU='COLLMER ALAN' OR - AU='COLLMER ALLAN'
S2	88	AU='ALFANO J' OR AU='ALFANO J A' OR AU='ALFANO J C' OR AU=- 'ALFANO J E' OR AU='ALFANO J R' OR AU='ALFANO JA' OR AU='ALFA- NO JAMES R' OR AU='ALFANO JC'
S3	90	AU='CHARKOWSKI, A. O' OR S2
S4	33	AU='CHARKOWSKI A' OR AU='CHARKOWSKI A O' OR AU='CHARKOWSKI AMY' OR AU='CHARKOWSKI AMY O' OR AU='CHARKOWSKI AO'
S5	338	"PSEUDOMONAS SYRINGAE"
S6	282	(S1 OR S2 OR S4)
S7	0	S6 AND S5
? s s6 and dc300		
	282	S6
	1	DC300
S8	0	S6 AND DC300
? s s6 and effector?		
	282	S6
	63459	EFFECTOR?
S9	26	S6 AND EFFECTOR?
? type s9/free/all		

9/8/1 (Item 1 from file: 5)
 14061188 BIOSIS NO.: 200300055217
 Recombinant constructs and techniques for delivering to eucaryotic cells
 bacterial proteins that are secreted via type III secretion systems.
 2002

9/8/2 (Item 2 from file: 5)

13946618 BIOSIS NO.: 200200575439

A gene in the *Pseudomonas syringae* pv. tomato Hrp pathogenicity island conserved effector locus, hopPtoA1, contributes to efficient formation of bacterial colonies in planta and is duplicated elsewhere in the genome.

2002

9/8/3 (Item 3 from file: 5)

13935569 BIOSIS NO.: 200200564390

Genomic mining type III secretion system effectors in *Pseudomonas syringae* yields new picks for all TTSS prospectors.

2002

9/8/4 (Item 4 from file: 5)

13837836 BIOSIS NO.: 200200466657

Pseudomonas syringae pv. tomato DC3000: Genomics and phytopathogenicity.

2002

9/8/5 (Item 5 from file: 5)

13778060 BIOSIS NO.: 200200406881

The ShcA protein is a molecular chaperone that assists in the secretion of the HopPsyA effector from the type III (Hrp) protein secretion system of *Pseudomonas syringae*.

2002

9/8/6 (Item 6 from file: 5)

13731560 BIOSIS NO.: 200200360381

Genomewide identification of proteins secreted by the Hrp type III protein secretion system of *Pseudomonas syringae* pv. tomato DC3000.

2002

9/8/7 (Item 7 from file: 5)

13587055 BIOSIS NO.: 200200215876

Genomewide identification of *Pseudomonas syringae* pv. tomato DC3000 promoters controlled by the HrpL alternative sigma factor.

2002

9/8/8 (Item 8 from file: 5)

12684892 BIOSIS NO.: 200000438394

Pseudomonas syringae Hrp type III secretion system and effector proteins.

2000

9/8/9 (Item 9 from file: 5)

12601482 BIOSIS NO.: 200000354984

Functional analysis of the exchangeable effector loci of multiple *Pseudomonas syringae* pathovars.

2000

9/8/10 (Item 10 from file: 5)

12553594 BIOSIS NO.: 200000307096

Functional analysis of the conserved effector locus in the Hrp pathogenicity island of *Pseudomonas syringae* pv. tomato DC3000.

2000

9/8/11 (Item 11 from file: 5)

12502661 BIOSIS NO.: 200000256163

The *Pseudomonas syringae* Hrp pathogenicity island has a tripartite mosaic structure composed of a cluster of type III secretion genes bounded by exchangeable effector and conserved effector loci that contribute to parasitic fitness and pathogenicity in plants.

2000

9/8/12 (Item 12 from file: 5)

12400824 BIOSIS NO.: 200000154326

The gene coding for the Hrp pilus structural protein is required for type III secretion of Hrp and Avr proteins in *Pseudomonas syringae* pv. tomato.

2000

9/8/13 (Item 13 from file: 5)

12113150 BIOSIS NO.: 199900407999

The Avr (effector) proteins HrmA (HopPsyA) and AvrPto are secreted in culture from *Pseudomonas syringae* pathovars via the Hrp (type III) protein secretion system in a temperature- and pH-sensitive manner.

1999

9/8/14 (Item 14 from file: 5)

12104757 BIOSIS NO.: 199900399606

Type III secretion machines: Bacterial devices for protein delivery into host cells.

1999

9/8/15 (Item 15 from file: 5)

11623857 BIOSIS NO.: 199800406069

A cloned *Erwinia chrysanthemi* Hrp (type III protein secretion) system functions in *Escherichia coli* to deliver *Pseudomonas syringae* Avr signals to plant cells and to secrete Avr proteins in culture.

1998

9/8/16 (Item 1 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

11254029 Genuine Article#: 626FC Number of References: 53

Title: A *Pseudomonas syringae* pv. tomato DC3000 Hrp (type III secretion) deletion mutant expressing the Hrp system of bean pathogen *P. syringae* pv. *syringae* 61 retains normal host specificity for tomato (ABSTRACT AVAILABLE)

Publication date: 20030100

Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY; BIOTECHNOLOGY & APPLIED MICROBIOLOGY; PLANT SCIENCES

Identifiers--KeyWord Plus(R): GRAM-NEGATIVE BACTERIA; YERSINIA YSC HOMOLOGS; HYPERSENSITIVE RESPONSE; EFFECTOR PROTEINS; GENE-CLUSTER; PHYTOTOXIN CORONATINE; HARPIN(PSS) SECRETION; ARABIDOPSIS-THALIANA; AVIRULENCE GENE; AVR PROTEINS

9/8/17 (Item 2 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

11064745 Genuine Article#: 601WN Number of References: 69

Title: Genomic mining type III secretion system effectors in
Pseudomonas syringae yields new picks for all TTSS prospectors (
ABSTRACT AVAILABLE)

Publication date: 20021000

Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY; MICROBIOLOGY

Identifiers--KeyWord Plus(R): ALTERNATE SIGMA-FACTOR; PV TOMATO;
HYPERSENSITIVE RESPONSE; PROTEIN SECRETION; AVIRULENCE GENE;
PATHOGENICITY ISLAND; PLASMA-MEMBRANE; AVR PROTEINS; HRP; PLANT

9/8/18 (Item 3 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

11059387 Genuine Article#: 601FN Number of References: 55

Title: A gene in the Pseudomonas syringae pv. tomato Hrp pathogenicity
island conserved effector locus, hopPtoA1, contributes to
efficient formation of bacterial colonies in planta and is duplicated
elsewhere in the genome (ABSTRACT AVAILABLE)

Publication date: 20021000

Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY; BIOTECHNOLOGY &
APPLIED MICROBIOLOGY; PLANT SCIENCES

Identifiers--KeyWord Plus(R): III PROTEIN SECRETION; GRAM-NEGATIVE
BACTERIA; ALTERNATE SIGMA-FACTOR; HYPERSENSITIVE RESPONSE;
ERWINIA-AMYLOVORA; PECTATE LYASES; AVR PROTEINS; SYSTEM; PHASEOLICOLA;
AVIRULENCE

9/8/19 (Item 4 from file: 34)

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10703355 Genuine Article#: 557KW Number of References: 42

Title: Genomewide identification of proteins secreted by the Hrp type III
protein secretion system of Pseudomonas syringae pv. tomato DC3000 (
ABSTRACT AVAILABLE)

Publication date: 20020528

Journal Subject Category: MULTIDISCIPLINARY SCIENCES

Identifiers--KeyWord Plus(R): AGROBACTERIUM-TUMEFACIENS C58; DISEASE
RESISTANCE LOCUS; FLANK AVIRULENCE GENES; GRAM-NEGATIVE BACTERIA;
MESSENGER-RNA; PATHOGENICITY ISLAND; PLANT PATHOGEN; EXPRESSION;
SEQUENCE; SIGNALS

9/8/20 (Item 5 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

10429137 Genuine Article#: 524UK Number of References: 51

Title: Genomewide identification of Pseudomonas syringae pv. tomato DC3000
promoters controlled by the HrpL alternative sigma factor (ABSTRACT
AVAILABLE)

Publication date: 20020219

Journal Subject Category: MULTIDISCIPLINARY SCIENCES

Identifiers--KeyWord Plus(R): HIDDEN MARKOV-MODELS; AVIRULENCE GENE; III
SECRETION; DISEASE RESISTANCE; BACILLUS-SUBTILIS; SEQUENCE; PROTEIN;
CLONING; CELLS; LOCUS

9/8/21 (Item 6 from file: 34)

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08899832 Genuine Article#: 341UL Number of References: 85

Title: Pseudomonas syringae Hrp type III secretion system and
effector proteins (ABSTRACT AVAILABLE)

Publication date: 20000801

Journal Subject Category: MULTIDISCIPLINARY SCIENCES

Identifiers--KeyWord Plus(R): PLANT-DISEASE RESISTANCE; HYPERSENSITIVE CELL-DEATH; GRAM-NEGATIVE BACTERIA; YERSINIA YSC HOMOLOGS; MESSENGER-RNA SIGNAL; PV SYRINGAE; AVIRULENCE GENE; MOLECULAR CHARACTERIZATION; RALSTONIA-SOLANACEARUM; PATHOGENICITY ISLANDS

9/8/22 (Item 7 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

08624027 Genuine Article#: 308GW Number of References: 54

Title: The *Pseudomonas syringae* Hrp pathogenicity island has a tripartite mosaic structure composed of a cluster of type III secretion genes bounded by exchangeable effector and conserved effector loci that contribute to parasitic fitness and pathogenicity in plants

(ABSTRACT AVAILABLE)

Publication date: 20000425

Journal Subject Category: MULTIDISCIPLINARY SCIENCES

Identifiers--KeyWord Plus(R): FRAGMENT-LENGTH-POLYMORPHISM; ESCHERICHIA-COLI; HYPERSENSITIVE RESPONSE; ERWINIA-AMYLOVORA; AVIRULENCE GENES; PV TOMATO; BACTERIAL PATHOGENS; PECTATE LYASES; AVR PROTEINS; SEQUENCE

9/8/23 (Item 8 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

08472754 Genuine Article#: 289QJ Number of References: 55

Title: The gene coding for the Hrp pilus structural protein is required for type III secretion of Hrp and Avr proteins in *Pseudomonas syringae* pv. tomato (ABSTRACT AVAILABLE)

Publication date: 20000229

Journal Subject Category: MULTIDISCIPLINARY SCIENCES

Identifiers--KeyWord Plus(R): ALTERNATE SIGMA-FACTOR; YERSINIA YSC HOMOLOGS; TARGET-CELL CONTACT; HYPERSENSITIVE RESPONSE; EPITHELIAL-CELLS; SALMONELLA-TYPHIMURIUM; PATHOGENIC BACTERIA; NEGATIVE REGULATION; ESCHERICHIA-COLI; EXPRESSION

9/8/24 (Item 9 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

07934523 Genuine Article#: 226GN Number of References: 47

Title: The Avr (effector) proteins HrmA (HopPsyA) and AvrPto are secreted in culture from *Pseudomonas syringae* pathovars via the Hrp (type III) protein secretion system in a temperature- and pH-sensitive manner (ABSTRACT AVAILABLE)

Publication date: 19990800

Journal Subject Category: MICROBIOLOGY

Identifiers--KeyWord Plus(R): PLANT-DISEASE RESISTANCE; ALTERNATE SIGMA-FACTOR; HYPERSENSITIVE RESPONSE; AVIRULENCE GENES; ERWINIA-AMYLOVORA; ESCHERICHIA-COLI; PV PHASEOLICOLA; CULTIVAR SPECIFICITY; PATHOGENICITY FACTOR; EXPRESSION

9/8/25 (Item 10 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

07701233 Genuine Article#: 198NN Number of References: 79

Title: Type III secretion machines: Bacterial devices for protein delivery into host cells (ABSTRACT AVAILABLE)

Publication date: 19990521

Journal Subject Category: MULTIDISCIPLINARY SCIENCES

Identifiers--KeyWord Plus(R): ENTEROPATHOGENIC ESCHERICHIA-COLI;
PLANT-PATHOGENIC BACTERIA; SALMONELLA-TYPHIMURIUM; EPITHELIAL-CELLS;
YERSINIA-ENTEROCOLITICA; PSEUDOMONAS-SYRINGAE; SHIGELLA-FLEXNERI;
TARGET-CELL; TYROSINE-PHOSPHATASE; ERWINIA-AMYLOVORA

9/8/26 (Item 11 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

06987578 Genuine Article#: 112BX Number of References: 48

Title: A cloned *Erwinia chrysanthemi* Hrp (type III protein secretion)
system functions in *Escherichia coli* to deliver *Pseudomonas syringae*
Avr signals to plant cells and to secrete Avr proteins in culture (
ABSTRACT AVAILABLE)

Publication date: 19980818

Journal Subject Category: MULTIDISCIPLINARY SCIENCES

Identifiers--KeyWord Plus(R): CAMPESTRIS PV VESICATORIA; GRAM-NEGATIVE
BACTERIA; SOFT-ROT PATHOGENESIS; HYPERSENSITIVE RESPONSE; AVIRULENCE
GENES; DELETION MUTATIONS; DISEASE RESISTANCE; EXPRESSION; PATHWAY;
HARPIN

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Set	Items	Description
S1	200	AU='COLLMER A' OR AU='COLLMER AC' OR AU='COLLMER ALAN' OR - AU='COLLMER ALLAN'
S2	88	AU='ALFANO J' OR AU='ALFANO J A' OR AU='ALFANO J C' OR AU=- 'ALFANO J E' OR AU='ALFANO J R' OR AU='ALFANO JA' OR AU='ALFA- NO JAMES R' OR AU='ALFANO JC'
S3	90	AU='CHARKOWSKI, A. O' OR S2
S4	33	AU='CHARKOWSKI A' OR AU='CHARKOWSKI A O' OR AU='CHARKOWSKI AMY' OR AU='CHARKOWSKI AMY O' OR AU='CHARKOWSKI AO'
S5	338	"PSEUDOMONAS SYRINGAE"
S6	282	(S1 OR S2 OR S4)
S7	0	S6 AND S5
S8	0	S6 AND DC300
S9	26	S6 AND EFFECTOR?
? s hopptoa or hopptoa1		
	1	HOPPTOA
	2	HOPPTOA1
S10	3	HOPPTOA OR HOPPTOA1
? type s10/free/all		

10/8/1 (Item 1 from file: 5)

13946618 BIOSIS NO.: 200200575439

A gene in the *Pseudomonas syringae* pv. tomato Hrp pathogenicity island
conserved effector locus, hopPtoA1, contributes to efficient
formation of bacterial colonies in planta and is duplicated elsewhere in
the genome.

2002

10/8/2 (Item 2 from file: 5)

11007214 BIOSIS NO.: 199799628359

HopPtoA, a *Pseudomonas syringae* pv. tomato Hrp-secreted protein with
homology to pectate lyases.

1997

10/8/3 (Item 1 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

11059387 Genuine Article#: 601FN Number of References: 55

Title: A gene in the *Pseudomonas syringae* pv. tomato Hrp pathogenicity island conserved effector locus, hopPtoA1, contributes to efficient formation of bacterial colonies in planta and is duplicated elsewhere in the genome (ABSTRACT AVAILABLE)

Publication date: 20021000

Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY; BIOTECHNOLOGY & APPLIED MICROBIOLOGY; PLANT SCIENCES

Identifiers--KeyWord Plus(R): III PROTEIN SECRETION; GRAM-NEGATIVE BACTERIA; ALTERNATE SIGMA-FACTOR; HYPERSENSITIVE RESPONSE; ERWINIA-AMYLOVORA; PECTATE LYASES; AVR PROTEINS; SYSTEM; PHASEOLICOLA; AVIRULENCE

? type s10/free/all

10/8/1 (Item 1 from file: 5)

13946618 BIOSIS NO.: 200200575439

A gene in the *Pseudomonas syringae* pv. tomato Hrp pathogenicity island conserved effector locus, hopPtoA1, contributes to efficient formation of bacterial colonies in planta and is duplicated elsewhere in the genome.

2002

10/8/2 (Item 2 from file: 5)

11007214 BIOSIS NO.: 199799628359

HopPtoA, a *Pseudomonas syringae* pv. tomato Hrp-secreted protein with homology to pectate lyases.

1997

10/8/3 (Item 1 from file: 34)

DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

11059387 Genuine Article#: 601FN Number of References: 55

Title: A gene in the *Pseudomonas syringae* pv. tomato Hrp pathogenicity island conserved effector locus, hopPtoA1, contributes to efficient formation of bacterial colonies in planta and is duplicated elsewhere in the genome (ABSTRACT AVAILABLE)

Publication date: 20021000

Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY; BIOTECHNOLOGY & APPLIED MICROBIOLOGY; PLANT SCIENCES

Identifiers--KeyWord Plus(R): III PROTEIN SECRETION; GRAM-NEGATIVE BACTERIA; ALTERNATE SIGMA-FACTOR; HYPERSENSITIVE RESPONSE; ERWINIA-AMYLOVORA; PECTATE LYASES; AVR PROTEINS; SYSTEM; PHASEOLICOLA; AVIRULENCE

? type s10/2/full

>>>'FULL' not recognized as item list

? type s10/full/2

10/9/2 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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11007214 BIOSIS NO.: 199799628359

HopPtoA, a *Pseudomonas syringae* pv. tomato Hrp-secreted protein with homology to pectate lyases.

AUTHOR: Charkowski A O(a); Conlin A(a); He S-Y; Collmer A(a)

AUTHOR ADDRESS: (a)Dep. Plant Pathol., Cornell Univ., Ithaca, NY 14850**USA

JOURNAL: Phytopathology 87 (6 SUPPL.):pS17 1997

CONFERENCE/MEETING: Annual Meeting of the American Phytopathological Society Rochester, New York, USA August 9-13, 1997

ISSN: 0031-949X

RECORD TYPE: Citation

LANGUAGE: English

REGISTRY NUMBERS: 9015-75-2D: PECTATE LYASES; 9015-75-2: PECTATE LYASE

DESCRIPTORS:

MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Infection;

Pathology; Physiology

BIOSYSTEMATIC NAMES: Pseudomonadaceae--Eubacteria, Bacteria; Solanaceae--

Dicotyledones, Angiospermae, Spermatophyta, Plantae

ORGANISMS: tobacco (Solanaceae); Pseudomonas syringae (Pseudomonadaceae)

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): angiosperms; bacteria; dicots;

eubacteria; microorganisms; plants; spermatophytes; vascular plants

CHEMICALS & BIOCHEMICALS: PECTATE LYASES; PECTATE LYASE

INDUSTRY: crop industry

MISCELLANEOUS TERMS: Meeting Abstract; HOPPTOA; HOST;

HRP-SECRETED PROTEIN; HYPERSENSITIVE RESPONSE; INFECTION;

PATHOVAR-TOMATO; PECTATE LYASE HOMOLOGY

CONCEPT CODES:

10064 Biochemical Studies-Proteins, Peptides and Amino Acids

31000 Physiology and Biochemistry of Bacteria

54504 Phytopathology-Diseases Caused by Bacteria

54514 Phytopathology-Parasitism and Resistance

00520 General Biology-Symposia, Transactions and Proceedings of

Conferences, Congresses, Review Annuals

BIOSYSTEMATIC CODES:

06508 Pseudomonadaceae (1992-)

26775 Solanaceae

? ds

Set	Items	Description
S1	200	AU='COLLMER A' OR AU='COLLMER AC' OR AU='COLLMER ALAN' OR - AU='COLLMER ALLAN'
S2	88	AU='ALFANO J' OR AU='ALFANO J A' OR AU='ALFANO J C' OR AU=- 'ALFANO J E' OR AU='ALFANO J R' OR AU='ALFANO JA' OR AU='ALFA- NO JAMES R' OR AU='ALFANO JC'
S3	90	AU='CHARKOWSKI, A. O' OR S2
S4	33	AU='CHARKOWSKI A' OR AU='CHARKOWSKI A O' OR AU='CHARKOWSKI AMY' OR AU='CHARKOWSKI AMY O' OR AU='CHARKOWSKI AO'
S5	338	"PSEUDOMONAS SYRINGAE"
S6	282	(S1 OR S2 OR S4)
S7	0	S6 AND S5
S8	0	S6 AND DC300
S9	26	S6 AND EFFECTOR?
S10	3	HOPPTOA OR HOPPTOA1
? s collmer and alfano and charkowski		
	18	COLLMER
	17	ALFANO
	0	CHARKOWSKI
S11	0	COLLMER AND ALFANO AND CHARKOWSKI
? ds		

Set	Items	Description
S1	200	AU='COLLMER A' OR AU='COLLMER AC' OR AU='COLLMER ALAN' OR - AU='COLLMER ALLAN'
S2	88	AU='ALFANO J' OR AU='ALFANO J A' OR AU='ALFANO J C' OR AU=- 'ALFANO J E' OR AU='ALFANO J R' OR AU='ALFANO JA' OR AU='ALFA- NO JAMES R' OR AU='ALFANO JC'
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S5	338	"PSEUDOMONAS SYRINGAE"
S6	282	(S1 OR S2 OR S4)

S7	0	S6 AND S5
S8	0	S6 AND DC300
S9	26	S6 AND EFFECTOR?
S10	3	HOPPTOA OR HOPPTOA1
S11	0	COLLMER AND ALFANO AND CHARKOWSKI